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| US 7135095 B2 | 20061114 | Papermaking press felt and press apparatus for a papermaking machine | 162/358.2 | 100/160; 162/358.1; 162/900; 442/271 | Oda; Hiroyuki et al. |
| US 7129539 B2 | 20061031 | Semiconductor storage device and manufacturing method therefor, semiconductor device, portable electronic equipment and IC card | 257/324 | 257/411; 257/E21.208; 257/E21.21; 257/E21.423; 257/E21.507; 257/E21.679; 257/E27.103; 257/E29.308; 257/E29.309 | Iwata; Hiroshi et al. |
| US 7123379 B2 | 20061017 | Color proofing method and apparatus, and recorded medium on which color proofing program is recorded | 358/1.9 | 355/85; 358/3.23; 358/518; 358/523; 382/167 | Nishida; Nobukatsu et al. |
| US 7116579 B2 | 20061003 | Semiconductor storage device and mobile electronic apparatus | 365/185.14 | 257/314; 365/185.03; 365/185.18; 365/189.01 | Morikawa; Yoshinao et al. |
| US 7110297 B2 | 20060919 | Semiconductor storage device and mobile electronic apparatus | 365/185.14 | 257/314; 365/185.03; 365/185.18; 365/189.01 | Morikawa; Yoshinao et al. |
| US 7106630 B2 | 20060912 | Semiconductor storage device, mobile electronic apparatus, method for controlling erase operation, and method for controlling program operation | 365/185.18 | 257/324; 365/149; 365/185.01; 365/185.14 | Hamaguchi; Koji et al. |
| US 7102941 B2 | 20060905 | Semiconductor memory device and portable electronic apparatus | 365/200 | 365/185.09; 365/185.11; 365/185.13; 365/230.06 | Yaoi; Yoshifumi et al. |
| US 7095077 B2 | 20060822 | Semiconductor memory having two charge storage sections | 257/324 | 257/314; 257/315; 257/316; 257/320; 257/321; 257/322; 257/326; 257/E21.21; 257/E21.423 | Kataoka; Kotaro et al. |
| US 7092295 | 20060815 | Semiconductor | 365/185.28 | 365/185.19; | Iwase; |

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| B2 | | memory device and portable electronic apparatus including the same | | 365/185.2 | Yasuaki et al. |
| US 7088618 B2 | 20060808 | Method of evaluating characteristics of semiconductor memory element, and method of extracting model parameter of semiconductor memory element | 365/185.05 | 365/185.06; 365/185.14 | Hoshino; Kozo et al. |
| US 7085166 B2 | 20060801 | Semiconductor memory device and programming method thereof | 365/185.2 | 257/E21.21; 257/E21.423; 257/E29.308; 365/185.19 | Iwase; Yasuaki et al. |
| US 7084465 B2 | 20060801 | Semiconductor device having device isolation region and portable electronic device | 257/392 | 257/213; 257/288; 257/368; 257/E21.544; 257/E21.642; 257/E21.644; 257/E27.067; 257/E29.263 | Shibata; Akihide et al. |
| US 7082057 B2 | 20060725 | Semiconductor memory device | 365/185.2 | 257/E21.21; 365/185.18; 365/185.24; 365/185.26 | Shibata; Akihide et al. |
| US 7079421 B2 | 20060718 | Method of improving data retention ability of semiconductor memory device, and semiconductor memory device | 365/185.24 | 365/185.28 | Yaoi; Yoshifumi et al. |
| US 7074676 B2 | 20060711 | Memory film, method of manufacturing the memory film, memory element, semiconductor storage device, semiconductor integrated circuit, and portable electronic equipment | 438/260 | 257/317; 257/E21.209; 257/E27.103; 438/288; 438/962 | Iwata; Hiroshi et al. |
| US 7064982 B2 | 20060620 | Semiconductor memory device and portable electronic apparatus | 365/185.18 | 257/E21.21; 257/E29.309; 365/185.13; 365/185.23 | Yaoi; Yoshifumi et al. |
| US 7061808 B2 | 20060613 | Semiconductor memory device, driving method thereof, and portable electronic apparatus | 365/185.19 | 257/315; 257/316; 257/E21.21; 257/E21.423; 257/E29.308; 365/185.26; 365/185.33 | Yaoi; Yoshifumi et al. |

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| US 7053437 B2 | 20060530 | Semiconductor memory device, semiconductor device and methods of manufacturing them, portable electronic equipment, and IC card | 257/314 | 257/E21.21; 257/E21.423; 257/E27.103; 438/201 | Iwata; Hiroshi et al. |
| US 7050337 B2 | 20060523 | Writing control method and writing control system of semiconductor storage device, and portable electronic apparatus | 365/189.05 | 365/189.04 | Iwase; Yasuaki et al. |
| US 7050331 B2 | 20060523 | Semiconductor memory device and portable electronic apparatus | 365/185.05 | 257/315; 257/316; 257/E21.21; 257/E21.423; 365/189.05 | Matsuoka; Nobuaki et al. |
| US 7038282 B2 | 20060502 | Semiconductor storage device | 257/390 | 257/202; 257/316; 257/317; 257/391; 257/E21.21; 257/E21.423; 257/E29.309; 365/185.14; 365/185.16; 365/185.18; 365/185.22; 365/185.28; 365/185.33; 365/200 | Tokui; Kei et al. |
| US 7030456 B2 | 20060418 | Resistance-changing function body, memory element, manufacturing method therefor, memory device, semiconductor device and electronic equipment | 257/508 | 257/529; 257/537; 257/E21.667; 257/E27.071; 257/E27.102 | Arai; Nobutoshi et al. |
| US 7023731 B2 | 20060404 | Semiconductor memory device and portable electronic apparatus | 365/185.14 | 365/185.28; 365/185.29 | Hamaguchi; Koji et al. |
| US 7012718 B2 | 20060314 | Color correcting method and recorded medium on which color correcting program is recorded | 358/3.23 | 358/1.9; 358/2.1 | Nishida; Nobukatsu et al. |
| US 7009892 B2 | 20060307 | Semiconductor memory device and portable electronic | 365/189.04 | 257/E21.21; 257/E21.423; 365/185.25; | Morikawa; Yoshinao et al. |

| | | apparatus | | 365/189.01 | |
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| US 7009884 B2 | 20060307 | Semiconductor storage device, display device and portable electronic equipment | 365/185.22 | 257/E21.21; 257/E21.423; 257/E29.309; 365/185.05; 365/185.15 | Yaoi; Yoshifumi et al. |
| US 6992933 B2 | 20060131 | Programming verification method of nonvolatile memory cell, semiconductor memory device, and portable electronic apparatus having the semiconductor memory device | 365/185.22 | 257/E21.209; 257/E21.21; 257/E21.422; 257/E21.423; 257/E29.308; 365/185.2 | Iwase; Yasuaki et al. |
| US 6992930 B2 | 20060131 | Semiconductor memory device, method for driving the same and portable electronic apparatus | 365/185.18 | 365/185.05; 365/185.23 | Matsuoka; Nobuaki et al. |
| US 6992926 B2 | 20060131 | Driver circuit for semiconductor storage device and portable electronic apparatus | 365/185.23 | 257/E21.21; 257/E29.309; 365/185.05; 365/230.06 | Iwase; Yasuaki et al. |
| US 6990022 B2 | 20060124 | Semiconductor memory device and portable electronic apparatus | 365/185.28 | 257/E21.21; 257/E21.423; 365/185.05; 365/185.29 | Morikawa; Yoshinao et al. |
| US 6985397 B2 | 20060110 | Semiconductor storage device and portable electronic equipment having the same | 365/226 | 365/185.18; 365/185.19 | Tokui; Kei et al. |
| US 6982906 B2 | 20060103 | Electrically programmable and electrically erasable semiconductor memory device | 365/185.19 | 257/E21.21; 365/185.28 | Matsuoka; Nobuaki et al. |
| US 6977843 B2 | 20051220 | Semiconductor memory device with malfunction prevention device, and portable electronic apparatus using the same | 365/185.18 | 257/E21.21; 257/E21.423; 257/E29.308; 365/189.09 | Hamaguchi; Koji et al. |
| US 6975551 B2 | 20051213 | Semiconductor storage, mobile electronic device, and detachable storage | 365/226 | 257/E29.302; 257/E29.309; 365/222; 365/227; 365/229 | Iwata; Hiroshi et al. |
| US 6969893 B2 | 20051129 | Semiconductor device and portable electronic apparatus | 257/368 | 257/296; 257/314; 257/341; 257/342; | Shibata; Akihide et al. |

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| | | | | 257/355; 257/369; 257/371; 257/374; 257/390; 257/391; 257/392; 257/401; 257/506; 257/510; 257/E21.548; 257/E21.644; 257/E27.062; 257/E27.063; 438/199; 438/221; 438/223 | |
| US 6927463 B2 | 20050809 | Semiconductor device and method for fabricating the same | 257/401 | 257/368; 257/369; 257/371; 257/E21.638; 257/E21.644; 257/E27.067 | Iwata; Hiroshi et al. |
| US 6894929 B2 | 20050517 | Method of programming semiconductor memory device having memory cells and method of erasing the same | 365/185.14 | 365/185.19; 365/185.22 | Matsuoka; Nobuaki et al. |
| US 6881302 B2 | 20050419 | Former for use in paper production | 162/300 | 162/299; 162/301; 162/351; 162/352 | Masuda; Kazuhiko et al. |
| US 6876055 B2 | 20050405 | Semiconductor device and its production method | 257/510 | 257/511; 257/513; 257/514; 257/E21.544; 257/E21.549; 257/E21.552; 257/E21.628; 257/E21.63 | Iwata; Hiroshi et al. |
| US 6862251 B2 | 20050301 | Semiconductor memory device | 365/233.5 | 257/E21.208; 257/E21.21; 257/E21.423; 257/E21.436; 257/E29.308; 365/185.05; 365/189.07 | Yaoi; Yoshifumi et al. |
| US 6853208 B2 | 20050208 | Vertical probe card | 324/758 | 324/158.1; 324/754 | Okubo; Masao et al. |
| US 6825528 B2 | 20041130 | Semiconductor device, method of manufacture thereof, and information | 257/336 | 257/408; 257/E21.145; 257/E21.43; 257/E21.438; | Iwata; Hiroshi et al. |

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| | | processing device | | 257/E21.444; 257/E21.634; 257/E21.64; 257/E21.642; 257/E29.267 | |
| US 6787410 B2 | 20040907 | Semiconductor device having dynamic threshold transistors and element isolation region and fabrication method thereof | 438/221 | 257/E21.548; 257/E21.633; 257/E29.263; 438/199; 438/223; 438/224; 438/227; 438/228; 438/404; 438/424 | Iwata; Hiroshi et al. |
| US 6774440 B1 | 20040810 | Semiconductor device and method for driving the same | 257/369 | 257/368; 257/371; 257/E29.064; 257/E29.281; 257/E29.287 | Shibata; Akihide et al. |
| US 6747316 B2 | 20040608 | Surface-channel metal-oxide semiconductor transistors, their complementary field-effect transistors and method of producing the same | 257/344 | 257/345; 257/372; 257/408; 257/E21.199; 257/E21.435; 257/E21.438; 257/E21.634; 257/E21.637 | Matsuoka; Toshimasa et al. |
| US 6720627 B1 | 20040413 | Semiconductor device having junction depths for reducing short channel effect | 257/369 | 257/351; 257/370; 257/371; 257/384; 257/456; 257/E21.165; 257/E21.199; 257/E21.335; 257/E21.337; 257/E21.338; 257/E21.438; 257/E21.633 | Iwata; Hiroshi et al. |
| US 6700170 B1 | 20040302 | Insulated gate transistor having a gate insulator containing nitrogen atoms and fluorine atoms | 257/410 | 257/288; 257/E21.193; 257/E21.194; 257/E21.637; 257/E21.639; 257/E29.162 | Morosawa; Narihiro et al. |
| US 6682966 B2 | 20040127 | Semiconductor device and method for producing the same | 438/207 | 257/199; 257/204; 257/288; 257/372; 257/374; 257/377; 257/69; 257/E21.415; 257/E29.286; 438/199; | Iwata; Hiroshi et al. |

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| | | | | 438/299; 438/301 | |
| US 6677212 B1 | 20040113 | Elevated source/drain field effect transistor and method for making the same | 438/303 | 257/401; 257/E21.166; 257/E21.345; 257/E29.063; 257/E29.121; 257/E29.122; 438/301 | Yoshioka; Fumiyoishi et al. |
| US 6656799 B2 | 20031202 | Method for producing FET with source/drain region occupies a reduced area | 438/270 | 257/E21.151; 257/E21.415; 257/E21.433; 257/E21.438; 257/E21.444; 257/E27.06; 257/E29.117; 257/E29.122; 257/E29.157; 257/E29.286; 438/300 | Iwata; Hiroshi et al. |
| US 6598523 B1 | 20030729 | Gravure printing method | 101/170 | 101/489; 101/DIG.37 | Kinoshita; Muneaki et al. |
| US 6573577 B1 | 20030603 | Semiconductor device and method for fabricating the same | 257/401 | 257/368; 257/369; 257/371; 257/E21.638; 257/E21.644; 257/E27.067 | Iwata; Hiroshi et al. |
| US 6562699 B1 | 20030513 | Process for manufacturing semiconductor device | 438/471 | 257/E21.162; 257/E21.165; 257/E21.199; 257/E21.224; 257/E21.438; 257/E21.444; 257/E21.507; 257/E29.146; 438/438; 438/583 | Kataoka; Kotaro et al. |
| US 6545328 B1 | 20030408 | Semiconductor device | 257/413 | 257/64; 257/66; 257/E21.197; 257/E21.199; 257/E21.301; 257/E21.316; 257/E21.438; 257/E21.444; 257/E21.634; 257/E21.635; 257/E29.154 | Morosawa; Narihiro et al. |
| US 6515340 B2 | 20030204 | Semiconductor device | 257/385 | 257/624; 257/E21.151; 257/E21.415; 257/E21.433; 257/E21.438; 257/E21.444; | Iwata; Hiroshi et al. |

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| | | | | 257/E27.06; 257/E29.117; 257/E29.122; 257/E29.157; 257/E29.286; 438/300 | |
| US 6509615 B2 | 20030121 | Semiconductor device having dynamic threshold transistors and element isolation region and fabrication method thereof | 257/368 | 257/369; 257/371; 257/E21.548; 257/E21.633; 257/E29.263 | Iwata; Hiroshi et al. |
| US 6426532 B1 | 20020730 | Semiconductor device and method of manufacture thereof | 257/374 | 257/371; 257/372; 257/377; 257/402; 257/412; 257/E21.415; 257/E29.263; 257/E29.286 | Iwata; Hiroshi et al. |
| US 6388749 B1 | 20020514 | Monitoring apparatus | 356/430 | 356/429 | Yamashita; Hiroshi et al. |
| US 6309511 B1 | 20011030 | Dewatering instrument for a paper machine twin-wire former | 162/352 | 162/301; 162/351 | Iwata; Hiroshi et al. |
| US 6300783 B1 | 20011009 | Probe, manufacture of same, and vertically operative type probe card assembly employing same | 324/761 | 324/754 | Okubo; Masao et al. |
| US 6297114 B1 | 20011002 | Semiconductor device and process and apparatus of fabricating the same | 438/305 | 257/E21.035; 257/E21.191; 257/E21.345; 257/E21.438; 257/E21.633; 257/E27.067; 257/E29.063; 257/E29.266; 438/303; 438/307; 438/595 | Iwata; Hiroshi et al. |
| US 6294922 B1 | 20010925 | Probe for testing a semiconductor integrated circuit | 324/761 | 324/754 | Okubo; Masao et al. |
| US 6291861 B1 | 20010918 | Semiconductor device and method for producing the same | 257/385 | 257/E21.151; 257/E21.415; 257/E21.433; 257/E21.438; 257/E21.444; 257/E27.06; 257/E29.117; 257/E29.122; 257/E29.157; 257/E29.286 | Iwata; Hiroshi et al. |

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| US 6288429 B1 | 20010911 | Semiconductor device | 257/369 | 257/57; 257/69; 257/E27.062; 257/E29.064; 257/E29.265 | Iwata; Hiroshi et al. |
| US 6258293 B1 | 20010710 | Refrigeration cycle | 252/68 | 417/410.3; 417/902; 418/178; 418/83; 418/94; 418/97; 418/98; 418/99; 508/485; 508/492; 508/493; 62/114; 62/115; 62/118; 62/474; 62/84 | Iizuka; Tadashi et al. |
| US 6255704 B1 | 20010703 | Semiconductor device and method for fabricating the same | 257/401 | 257/368; 257/369; 257/371; 257/E21.638; 257/E21.644; 257/E27.067 | Iwata; Hiroshi et al. |
| US 6255702 B1 | 20010703 | Semiconductor device having junction depths for reducing short channel effect | 257/384 | 257/900; 257/E21.165; 257/E21.199; 257/E21.335; 257/E21.337; 257/E21.338; 257/E21.438; 257/E21.633 | Iwata; Hiroshi et al. |
| US 6183602 B1 | 20010206 | Twin wire former dewatering device for a paper machine | 162/301 | 162/300; 162/352 | Iwata; Hiroshi et al. |
| US 6178190 B1 | 20010123 | II-VI compound semiconductor light emitting device | 372/45.01 | 257/103; 257/78; 257/E33.021 | Naniwae; Koichi et al. |
| US 6172405 B1 | 20010109 | Semiconductor device and production process therefore | 257/371 | 257/372; 257/379; 257/533; 257/536; 257/E21.644; 257/E27.062; 257/E29.263 | Shibata; Akihide et al. |
| US 6091152 A | 20000718 | Semiconductor device and method for fabricating the same | 257/770 | 257/754; 257/760; 257/764 | Iwata; Hiroshi |
| US 6078062 A | 20000620 | II-VI compound semiconductor based light emitting device having recombination regions spatially | 257/96 | 257/190; 257/201; 257/86; 257/87; 257/E33.007; | Kuramoto; Masaru et al. |

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| | | arrayed in a planar direction of the active layer to prevent crack propagation | | 257/E33.021 | |
| US 6029459 A | 20000229 | Refrigeration cycle | 62/84 | 252/68; 417/410.3; 62/114; 62/115; 62/118; 62/474 | Iizuka; Tadashi et al. |
| US 6028398 A | 20000222 | Cold cathode fluorescent lamp driving apparatus using a piezoelectric transformer | 315/224 | 315/276; 315/307; 315/DIG.5; 315/DIG.7 | Kawasaki; Osamu et al. |
| US 6013169 A | 20000111 | Method of reforming a tip portion of a probe | 205/224 | 205/149; 205/228 | Okubo; Masao et al. |
| US 5997693 A | 19991207 | Stock liquor pressure pulsation absorbing apparatus and method | 162/336 | 137/115.16; 137/115.25; 137/565.34; 162/380; 417/44.2 | Hirooka; Hideki et al. |
| US 5976918 A | 19991102 | Method of forming insulating film with few hydrogen atom inclusions | 438/149 | 257/E21.269; 438/151; 438/486; 438/487 | Matsuoka; Toshimasa et al. |
| US 5976639 A | 19991102 | Black matrix laminated film and reactive sputtering apparatus | 428/1.1 | 349/110; 428/209; 428/212; 428/332; 428/457; 428/469; 428/698; 428/699; 428/702 | Iwata; Hiroshi |
| US 5964581 A | 19991012 | Refrigerant compressor | 417/410.3 | 252/68 | Iizuka; Tadashi et al. |
| US 5960319 A | 19990928 | Fabrication method for a semiconductor device | 438/664 | 257/E21.165; 257/E21.199; 257/E21.335; 257/E21.337; 257/E21.338; 257/E21.438; 257/E21.633; 438/649; 438/651; 438/659; 438/683; 438/685 | Iwata; Hiroshi et al. |
| US 5946939 A | 19990907 | Refrigerator and condenser | 62/507 | 165/170 | Matsushima; Hiroaki et al. |
| US 5926741 A | 19990720 | Method of forming gate dielectric films for MOSFETs | 438/778 | 257/E21.193; 257/E21.285; 257/E29.165; | Matsuoka; Toshimasa et al. |

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| | | without generation of natural oxide films | | 438/769; 438/770 | |
| US 5922181 A | 19990713 | Black matrix laminated film and reactive sputtering apparatus | 204/298.07 | 204/298.23 | Iwata; Hiroshi |
| US 5898190 A | 19990427 | P-type electrode structure and a semiconductor light emitting element using the same structure | 257/99 | 257/103; 257/200; 257/744; 257/745; 257/94; 257/E33.063 | Iwata; Hiroshi |
| US 5880500 A | 19990309 | Semiconductor device and process and apparatus of fabricating the same | 257/336 | 257/344; 257/382; 257/E21.035; 257/E21.191; 257/E21.345; 257/E21.438; 257/E21.633; 257/E27.067; 257/E29.063; 257/E29.266 | Iwata; Hiroshi et al. |
| US 5871617 A | 19990216 | Paper machine twin-wire former with dewatering limiting blade device | 162/301 | 162/300; 162/352 | Iwata; Hiroshi et al. |
| US 5849634 A | 19981215 | Method of forming silicide film on silicon with oxygen concentration below 10. ¹⁸ /cm. ³ | 438/655 | 257/E21.151; 257/E21.165; 257/E21.199; 257/E21.43; 257/E21.433; 257/E21.438; 257/E29.146; 257/E29.156; 438/656; 438/658; 438/664; 438/682; 438/683 | Iwata; Hiroshi |
| US 5827409 A | 19981027 | Method and apparatus for forming thin film for liquid crystal display | 204/192.15 | 204/192.26; 204/192.29; 204/298.07; 204/298.25; 204/298.26 | Iwata; Hiroshi et al. |
| US 5746695 A | 19980505 | Front end structure of endoscope | 600/127 | 600/121; 600/125; 600/129 | Yasui; Naoki et al. |
| US 5725477 A | 19980310 | Front end structure of endoscope | 600/127 | 600/121; 600/125; 600/129; 600/156; 600/157 | Yasui; Naoki et al. |
| US 5725476 A | 19980310 | Front end structure of endoscope | 600/127 | 600/121; 600/125; 600/129; | Yasui; Naoki et al. |

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| US 5725475 A | 19980310 | Front end structure of endoscope | 600/127 | 600/121; 600/129 | Yasui; Naoki et al. |
| US 5725474 A | 19980310 | Front end structure of endoscope | 600/127 | 600/121; 600/125; 600/129 | Yasui; Naoki et al. |
| US 5711165 A | 19980127 | Refrigerating apparatus and refrigerant compressor | 62/474 | 252/68; 62/114 | Iizuka; Tadashi et al. |
| US 5705828 A | 19980106 | Photovoltaic device | 257/53 | 257/52; 257/59; 257/72 | Noguchi; Shigeru et al. |
| US 5694779 A | 19971209 | Refrigerator and condenser | 62/114 | 62/149; 62/174 | Matsushima; Hiroaki et al. |
| US 5670889 A | 19970923 | Probe card for maintaining the position of a probe in high temperature application | 324/760 | 324/761; 324/762 | Okubo; Masao et al. |
| US 5670789 A | 19970923 | Semiconductor light-emitting device with quantum well structure | 257/13 | 257/17; 257/22; 257/23; 257/96; 257/97; 257/E33.005; 257/E33.021; 372/45.01; 372/46.01 | Iwata; Hiroshi |
| US 5566716 A | 19961022 | Hydraulic control valve | 137/636.1 | 137/596.1; 251/295; 251/51 | Togashi; Yoshio et al. |
| US 5554017 A | 19960910 | Scroll fluid machine, scroll member and processing method thereof | 418/55.2 | 29/888.02 | Kohsokabe; Hirokatsu et al. |
| US 5545295 A | 19960813 | Web transfer device | 162/358.1 | 162/306; 162/360.3 | Fujita; Norio et al. |
| US 5519722 A | 19960521 | II-VI compound semiconductor laser with burying layers | 372/46.01 | 372/45.01 | Iwata; Hiroshi |
| US 5475700 A | 19951212 | Laser diode with electron and hole confinement and barrier layers | 372/45.01 | 372/46.01 | Iwata; Hiroshi |
| US 5470439 A | 19951128 | End portion flow rate regulating apparatus for a paper machine headbox | 162/216 | 162/259; 162/336; 162/337 | Makino; Tetsuo et al. |
| US 5455430 A | 19951003 | Photovoltaic device having a semiconductor grade silicon layer formed on a metallurgical grade substrate | 257/53 | 136/256; 136/258; 136/261; 257/431; 257/461; 257/462; | Noguchi; Shigeru et al. |

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| | | | | 257/51; 257/52; 257/E29.003 | |
| US 5454366 A | 19951003 | Endoscope distal end with folded circuit board | 600/109 | 348/E5.025; 600/128; 600/129 | Ito; Keiji et al. |
| US 5437769 A | 19950801 | Dewatering instrument for a paper machine twin-wire former | 162/301 | 162/352 | Bando; Takashi et al. |
| US 5427512 A | 19950627 | Scroll fluid machine, scroll member and processing method thereof | 418/55.2 | 418/150 | Kohsokabe; Hirokatsu et al. |
| US 5427087 A | 19950627 | Structure of the distal end portion of an endoscope | 600/109 | 600/110; 600/128; 600/129 | Ito; Keiji et al. |
| US 5419783 A | 19950530 | Photovoltaic device and manufacturing method therefor | 438/93 | 136/249; 136/258; 257/458; 438/483; 438/96 | Noguchi; Shigeru et al. |
| US 5401336 A | 19950328 | Photovoltaic device | 136/255 | 136/256; 136/258; 136/261; 257/431; 257/458; 257/465; 257/E31.13 | Noguchi; Shigeru et al. |
| US 5378289 A | 19950103 | Method of forming crystalline silicon film and solar cell obtained thereby | 136/258 | 117/8; 136/256; 257/E31.13; 264/104; 438/486; 438/71 | Noguchi; Shigeru et al. |
| US 5370747 A | 19941206 | Photovoltaic device | 136/259 | 136/256; 136/258; 257/436; 257/458; 257/466; 257/E31.13 | Noguchi; Shigeru et al. |
| US 5332754 A | 19940726 | Naphthyloxazolidone derivatives | 514/376 | 548/231; 548/232 | Nakai; Hideo et al. |
| US 5318919 A | 19940607 | Manufacturing method of thin film transistor | 438/166 | 257/66; 257/72; 257/E21.133; 257/E21.413; 257/E29.277; 257/E29.293; 438/308 | Noguchi; Shigeru et al. |
| US 5295808 A | 19940322 | Synchronous rotating type scroll fluid machine | 417/366 | 417/410.5; 418/15; 418/188; 418/55.3; 418/55.5; | Machida; Shigeru et al. |

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| | | | | 418/57 | |
| US 5248392 A | 19930928 | Sheet-forming apparatus for a twin wire paper machine with positive pulse shoe blades | 162/301 | 162/300; 162/352 | Bando; Takashi et al. |
| US 5243216 A | 19930907 | Phototransistor | 257/462 | 257/464; 257/53; 257/E31.048; 257/E31.069 | Noguchi; Shigeru et al. |
| US 5236516 A | 19930817 | Photovoltaic apparatus | 136/246 | 136/244; 136/251; 136/256; 136/258; 136/259; 257/E27.125 | Noguchi; Shigeru et al. |
| US 5231297 A | 19930727 | Thin film transistor | 257/77 | 257/192; 257/65; 257/66; 257/E21.413; 257/E29.277 | Nakayama; Shoichiro et al. |
| US 5221365 A | 19930622 | Photovoltaic cell and method of manufacturing polycrystalline semiconductive film | 136/258 | 136/261; 148/DIG.122; 148/DIG.153; 148/DIG.90; 257/458; 257/49; 257/51; 257/66; 257/75; 257/E31.044; 257/E31.13; 438/486; 438/488; 438/964; 438/97 | Noguchi; Shigeru et al. |
| US 5213628 A | 19930525 | Photovoltaic device | 136/255 | 136/258; 136/261; 257/458 | Noguchi; Shigeru et al. |
| US 5211761 A | 19930518 | Photovoltaic device and manufacturing method thereof | 136/258 | 257/E31.042; 438/97 | Noguchi; Shigeru et al. |
| US 5183780 A | 19930202 | Method of fabricating semiconductor device | 438/151 | 257/E21.008; 257/E21.133; 257/E21.151; 257/E21.166; 257/E21.413; 257/E21.414; 257/E21.703; 257/E29.277; 257/E29.343; 438/158; 438/394; 438/535; 438/540; | Noguchi; Shigeru et al. |

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| US 5182296 A | 19930126 | Naphthyloxazolidone derivatives | 514/376 | 548/231; 548/232; 558/411; 560/28; 560/29; 560/30; 564/428 | Nakai; Hideo et al. |
| US 5155051 A | 19921013 | Method of manufacturing photovoltaic device | 438/97 | 136/258; 257/E27.124; 257/E31.042; 438/486 | Noguchi; Shigeru et al. |
| US 5144391 A | 19920901 | Semiconductor device which relieves internal stress and prevents cracking | 257/190 | 257/192; 257/349; 257/66; 257/E29.137 | Iwata; Hiroshi et al. |
| US 5137437 A | 19920811 | Scroll compressor with improved bearing | 418/55.1 | 384/209; 418/151; 418/55.3 | Machida; Shigeru et al. |
| US 5129858 A | 19920714 | Air-conditioning grille | 454/155 | 454/320 | Komori; Takahiro et al. |
| US 5097338 A | 19920317 | Scanning type image sensor | 358/482 | 348/E5.079; 358/471 | Kuriyama; Hiroyuki et al. |
| US 5087170 A | 19920211 | Rotary compressor | 415/110 | 184/6.16; 184/6.18; 184/6.24; 417/366; 417/902 | Kousokabe; Hirokatsu et al. |
| US 5056420 A | 19911015 | Grilles for air conditioning | 454/155 | 454/315 | Komori; Takahiro et al. |
| US 4871608 A | 19891003 | High-density wiring multilayered substrate | 428/209 | 106/1.13; 106/1.14; 106/1.18; 106/1.19; 106/1.25; 252/512; 428/210; 428/432; 428/433; 428/689; 428/702; 428/901 | Kondo; Kazuo et al. |
| US 4847538 A | 19890711 | Electronic flash equipment | 315/241P | 315/151 | Iwata; Hiroshi et al. |
| US 4837408 A | 19890606 | High density multilayer wiring board and the manufacturing thereof | 174/257 | 156/89.18; 252/514; 361/792 | Kondo; Kazuo et al. |
| US 4802181 A | 19890131 | Semiconductor superlattice light emitting sevice | 372/45.012 | 257/15; 257/22; 257/E33.008; 372/46.01 | Iwata; Hiroshi |
| US 4767226 A | 19880830 | Print head with wires which continuously contact the tip guide | 400/124.24 | 101/93.05 | Sakaida; Atsuo et al. |

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| US 4738330 A | 19880419 | Hydraulic drive system for use with vehicle power steering pump | 180/421 | 123/41.12; 137/101; 137/115.04; 137/115.09; 180/423; 280/6.157; 60/443; 60/450 | Suzuki; Masahiko et al. |
| US 4710106 A | 19871201 | Volume controlling device for variable volume pump | 417/213 | 417/218; 417/219; 60/450; 60/459 | Iwata; Hiroshi et al. |
| US 4708773 A | 19871124 | Impermeable plate for uniformly dispersing paper raw material in a twin wire paper former | 162/300 | 162/301; 162/351 | Fujiwara; Haruyoshi et al. |
| US 4695144 A | 19870922 | Drive apparatus of lens and exposure mechanism by motor | 396/132 | | Yoshino; Tsunemi et al. |
| US 4652215 A | 19870324 | Variable capacity radial piston pump | 417/219 | 92/12.1 | Kuroyanagi; Masatoshi et al. |
| US 4634301 A | 19870106 | Print head with torsion spring | 400/124.21 | 101/93.05; 101/93.48; 335/270; 335/274; 400/157.2; 55/459.1 | Sakaida; Atsuo et al. |
| US 4632530 A | 19861230 | Automatic film winding system | 396/397 | | Iwata; Hiroshi et al. |
| US 4601641 A | 19860722 | Discharge pressure-dependant variable-capacity radial plunger pump | 417/220 | | Kuroyanagi; Masatoshi et al. |
| US 4596449 A | 19860624 | Zoom lens apparatus | 359/696 | 359/700; 359/823 | Iwata; Hiroshi et al. |
| US 4585313 A | 19860429 | Lens drive device and optical lens assembly utilizing the same | 359/696 | 359/700; 359/823 | Iwata; Hiroshi et al. |
| US 4581726 A | 19860408 | Ultrasonic distance measuring apparatus | 267/99 | 367/902; 367/99 | Makino; Hiroshi et al. |
| US 4578783 A | 19860325 | Ultrasonic distance measuring apparatus | 367/99 | 367/138 | Iwata; Hiroshi et al. |
| US 4571101 A | 19860218 | Print head | 400/124.13 | 335/300; 400/719 | Sakaida; Atsuo et al. |
| US 4561829 A | 19851231 | Rotary compressor with tapered valve ports for lubricating pump | 417/368 | 184/6.16; 417/410.1; 417/410.3; 417/490; 417/557; 417/902; 418/63; 418/88; 418/94 | Iwata; Hiroshi et al. |

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| US 4544338 A | 19851001 | Oil feeder means for use in a horizontal type rotary compressor | 418/63 | 184/6.16; 417/368; 417/557; 417/902; 418/87; 418/88 | Takebayashi; Masahiro et al. |
| US 4479076 A | 19841023 | Power saving device for electronic flash | 315/241P | 315/225; 315/360 | Yamaoka; Tetsuo et al. |
| US 4472042 A | 19840918 | Flash camera | 396/165 | 396/176 | Iwata; Hiroshi et al. |
| US 4472039 A | 19840918 | Photographic lens device having a step motor mounted on the lens barrel | 396/508 | | Iwata; Hiroshi et al. |
| US 4461560 A | 19840724 | Photographic information display device | 396/284 | 396/292 | Yoshino; Tsunemi et al. |
| US 4443087 A | 19840417 | Focus state indicator | 396/105 | 396/147; 396/283 | Kashihara; Toshitsugu et al. |
| US 4431288 A | 19840214 | Camera with liquid crystal aperture control means | 396/89 | 396/166 | Iwata; Hiroshi et al. |
| US 4423941 A | 19840103 | Device for shifting lens group | 396/133 | 359/824 | Iwata; Hiroshi et al. |
| US 4423940 A | 19840103 | Photographic equipment | 396/62 | 362/18 | Kashihara; Toshitsugu et al. |
| US 4394077 A | 19830719 | Device for detecting sharp focusing | 396/101 | 396/106; 396/147; 396/354 | Yoshino; Tsunemi et al. |
| US 4384772 A | 19830524 | Camera | 396/133 | | Hatada; Kotaro et al. |
| US 4381146 A | 19830426 | Piezoelectric aperture size control device | 396/505 | | Yoshino; Tsunemi et al. |
| US 4372657 A | 19830208 | Device for indicating photographic exposure conditions | 396/287 | 396/296; 396/373 | Iwata; Hiroshi et al. |
| US 4371245 A | 19830201 | Photographing lens system with focus informing means | 396/105 | 359/825; 396/129; 396/147; 396/298 | Iwata; Hiroshi et al. |
| US 4364652 A | 19821221 | Automatic focusing camera | 396/80 | 396/105; 396/529 | Iwata; Hiroshi et al. |
| US 4362370 A | 19821207 | Automatic film transport device | 396/407 | 226/33; 242/333.2; 242/333.7; 396/284; 396/395 | Iwata; Hiroshi et al. |
| US 4352546 A | 19821005 | Camera selectively settable to either standard photographic mode or supertelephotographic mode | 396/61 | 396/176; 396/378 | Iwata; Hiroshi et al. |

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| US 4341449 A | 19820727 | Camera capable of standard and close-up exposures | 396/61 | 396/377; 396/378; 396/71 | Iwata; Hiroshi et al. |
| US 4336985 A | 19820629 | Camera with macro-photographic system | 396/155 | 396/373 | Iwata; Hiroshi et al. |
| US 4325621 A | 19820420 | Electronic flash device | 396/175 | 362/18 | Iwata; Hiroshi et al. |
| US 4310785 A | 19820112 | Electronic photographic flash apparatus | 315/241P | 315/171; 315/173; 396/206 | Iwata; Hiroshi |
| US 4284336 A | 19810818 | Automatic focusing camera | 396/105 | 396/463 | Iwata; Hiroshi et al. |
| US 4280760 A | 19810728 | Flash camera | 396/67 | 396/167; 396/207; 396/214 | Iwata; Hiroshi et al. |
| US 4270853 A | 19810602 | Sound-recording instant-printing film and camera therefor | 396/33 | 358/906; 360/2; 396/312; 396/320; 396/366; 430/140; 430/207; 430/497 | Hatada; Kotaro et al. |
| US 4252428 A | 19810224 | Radio-receiver-built-in flash camera | 396/59 | 396/434; 455/154.1; 455/344 | Iwata; Hiroshi et al. |
| US 4235547 A | 19801125 | Photographic camera | 396/147 | 396/289 | Iwata; Hiroshi |
| US 4229092 A | 19801021 | Distance indicator for camera | 396/147 | | Iwata; Hiroshi |
| US 4181581 A | 19800101 | Acrylonitrile block-copolymer composition | 524/409 | 524/505; 525/94 | Iwata; Hiroshi et al. |
| US 4147420 A | 19790403 | Flash camera | 396/148 | 396/147; 396/204 | Iwata; Hiroshi et al. |
| US 4131351 A | 19781226 | Battery checker for a camera with a flash light unit | 396/203 | 200/308; 396/279; 396/287 | Iwata; Hiroshi et al. |
| US 4122466 A | 19781024 | Zoom lens camera equipped with flash unit | 396/62 | 396/159; 396/274 | Iwata; Hiroshi |
| US 4119988 A | 19781010 | Camera using instant print film | 396/30 | 396/287; 396/293; 396/296 | Iwata; Hiroshi et al. |
| US 4112447 A | 19780905 | Flash and camera device | 396/205 | 396/543 | Iwata; Hiroshi |
| US 4111000 A | 19780905 | Room air conditioner | 62/262 | 62/427 | Sakazume; Akio et al. |
| US 4084169 A | 19780411 | Automatic film advancing system | 396/409 | 396/395; 396/397 | Iwata; Hiroshi et al. |
| US 4084167 A | 19780411 | Flash and camera device | 396/205 | | Iwata; Hiroshi |
| US 4083058 A | 19780404 | Flash and camera apparatus having a plurality of flash and | 396/203 | 396/205 | Iwata; Hiroshi et al. |

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| | | daylight operation modes | | | |
| US 4082984 A | 19780404 | Electric flash device with printed coil transformer | 315/241P | 315/276; 315/278; 331/112; 331/113A; 396/205 | Iwata; Hiroshi et al. |
| US 4079390 A | 19780314 | Aperture setting device for use with exposure control device | 396/260 | 396/262 | Iwata; Hiroshi et al. |
| US 4074287 A | 19780214 | Flash and camera device | 396/161 | 396/276 | Iwata; Hiroshi et al. |
| US 4072963 A | 19780207 | Programme-controlled shutter | 396/233 | 396/244 | Iwata; Hiroshi et al. |
| US 4068150 A | 19780110 | Voltage indication means for an electronic flashing device | 315/241P | 315/135; 315/136; 396/203; 396/206 | Iwata; Hiroshi et al. |
| US 4065776 A | 19771227 | Camera with automatic flash exposure system | 396/66 | 396/155; 396/260 | Iwata; Hiroshi et al. |
| US 4057810 A | 19771108 | Exposure control system | 396/244 | 396/301 | Iwata; Hiroshi et al. |
| US 4053907 A | 19771011 | Program-controlled shutter | 396/235 | | Iwata; Hiroshi et al. |
| US 4041512 A | 19770809 | Light control device | 396/449 | 396/463 | Iwata; Hiroshi et al. |
| US 4039898 A | 19770802 | Electronic flash apparatus | 315/241P | 320/117; 320/130; 396/195 | Iwata; Hiroshi et al. |
| US 4029835 A | 19770614 | Heat resistant sheet | 428/212 | 428/474.4; 428/910; 442/411 | Iwata; Hiroshi et al. |
| US 4021826 A | 19770503 | Camera control device | 396/59 | 396/391; 396/493 | Iwata; Hiroshi et al. |
| US 4017872 A | 19770412 | Shutter for camera | 396/256 | | Iwata; Hiroshi et al. |
| US 4016574 A | 19770405 | Program-controlled shutter | 396/244 | | Iwata; Hiroshi et al. |
| US 4009866 A | 19770301 | Exposure control device | 396/244 | 396/503 | Iwata; Hiroshi et al. |
| US 4005448 A | 19770125 | Programmed shutter | 396/244 | | Iwata; Hiroshi et al. |
| US 3997905 A | 19761214 | Program-controlled shutter | 396/244 | 396/301 | Iwata; Hiroshi et al. |
| US 3988387 A | 19761026 | Polyester fibers having excellent dyeability | 525/444 | 524/100; 524/141; 524/147; 524/153; 524/222; 524/291; 524/333; 524/343; 524/349; | Chimura; Kazuya et al. |

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| | | | | 524/605; 524/611; 8/539; 8/922; 8/DIG.4 | |
| US 3962185 A | 19760608 | Polyester compositions having a durable antistatic property | 525/437 | 260/DIG.16; 524/150; 524/151; 525/442; 525/480; 528/167; 528/287 | Chimura; Kazuya et al. |
| US 3953864 A | 19760427 | Camera device having a photographic flash device combined therewith | 396/204 | | Iwata; Hiroshi et al. |
| US 3910687 A | 19751007 | Light control device | 359/228 | 396/452 | Iwata; Hiroshi |
| US 3890538 A | 19750617 | Photographic electronic flash apparatus | 315/241P | 315/234; 315/240; 396/180 | Iwata; Hiroshi et al. |
| US 3890536 A | 19750617 | Electronic flash device for photography | 315/151 | 315/159; 315/241P | Iwata; Hiroshi |
| US 3878429 A | 19750415 | ELECTRONIC FLASH DEVICE WITH AUTOMATIC LIGHT CONTROL | 315/151 | 315/159; 315/241P; 315/241R | Iwata; Hiroshi |
| US 3876288 A | 19750408 | LIGHT CONTROLLING DEVICE | 359/296 | 252/62.54; 359/297; 396/457 | Iwata; Hiroshi et al. |
| US 3867478 A | 19750218 | POLYESTER COMPOSITION | 524/150 | 260/DIG.16; 524/126; 524/147; 524/148; 524/151; 524/152; 525/430; 528/101; 528/152; 528/324; 528/327; 528/336; 528/341 | Chimura; Kazuya et al. |
| US 3831079 A | 19740820 | ELECTRONIC PHOTOGRAPHIC FLASH APPARATUS | 363/28 | 315/209SC; 315/241P | Iwata; Hiroshi |
| US 3716752 A | 19730213 | ELECTRONIC FLASH INTENSITY CONTROL CIRCUITS | 315/151 | 250/205; 315/156; 315/159; 315/241P; 315/245; 396/180 | Iwata; Hiroshi |